

AMENDMENTS TO THE SPECIFICATION

Please replace the paragraph on lines 19-24 of page 7 with the following amended paragraph:

Figure 4 is a schematic diagram illustrating one embodiment of a single ended laser driver with laser circuit 330 for portion 300 of transceiver 100. Single ended laser driver with laser circuit 330 includes resistors 334, 358, and 388, PNP transistors ~~[[350]]~~ 370, 362, and 374, inductor 366, current sources 378 and 348, NPN transistors 338 and 350, capacitor 393, control signal source 342, and laser diode 396.

Please replace the paragraphs on lines 6-28 of page 8 with the following amended paragraphs:

Inductor 366 is electrically coupled to the collector of transistor 362 through path 364. The emitter of transistor 362 is electrically coupled to resistor 358 through path 360. The base of transistor 362 is electrically coupled to the emitter of transistor 374 and the base of transistor ~~[[350]]~~ 370 through path 368. The collector of transistor 374 is electrically coupled to common 344 through path 376. The base of transistor 374 is electrically coupled to the collector of transistor ~~[[350]]~~ 370 and to current source 378 through path 372. Current source 378 is electrically coupled to common 344 through path 380. The emitter of transistor ~~[[350]]~~ 370 is electrically coupled to V_{REF} signal 332 and resistor 358 through path 356.

V_{REF} 332, resistor 358, PNP transistors 362, ~~[[350]]~~ 370, and 374, and current source 378 provide I_{MOD} and I_{BIAS} current source 302. Inductor 366 is similar to inductor 306. NPN transistors 338 and 350 and control signal source 342 provide switch 312. Current source 348 provides I_{MOD} current sink 316. Laser diode 396 provides laser 310.

Current source 378, V_{REF} 332, transistors ~~[[350]]~~ 370, 374, and 362, and resistor 358 form a current mirror. The current mirror provides a current on path

364, which passes to inductor 366. The current on path 364 is approximately equal to the current of current source 378. Current source 378 supplies a current equal to approximately the I_{BIAS} and I_{MOD} current. Inductor 366 improves the frequency response of the current mirror by increasing the bandwidth of the current mirror. Inductor 366 can be sized to achieve a desired frequency response and to reduce the intersymbol interference of the optical output of laser diode 396 to a desired level.